

AMENDMENT AND PRESENTATION OF CLAIMS

Please replace all prior claims in the present application with the following claims, in which claims 2, 14, 16-18, 20-22, and 30-35 are canceled without prejudice or disclaimer, claim 15 was previously canceled, and claims 1, 3-13, 19, and 20 are currently amended. No claim is newly presented.

1. (Currently Amended) An intelligent service network, comprising:

a programmable switch; ~~and~~

a switch controller coupled to said programmable switch, and including a service control means for interfacing with an intelligent service network component of said intelligent service network;

another programmable switch coupled to a public switched telephone network means for coupling to a calling device;

another switch controller, wherein each of said switch controllers means for coupling to at least one of said programmable switches; and

one or more intelligent service network components, wherein each of said one or more intelligent service network components means for coupling to at least one of said switch controllers.

2. (Canceled)

3. (Currently Amended) The intelligent service network of claim 1, wherein one of said switch controllers further comprises:

a programmable switch support means for providing an interface to said programmable switch; and

a call control means for establishing a connection between ports on said programmable switch.

4. (Currently Amended) The intelligent service network of claim 3, wherein one of said switch controllers further comprises:

a resource control means for allocating resources.

5. (Currently Amended) The intelligent service network of claim 3, wherein one of said switch controllers further comprises:

a management interface means for providing an interface to external management systems.

6. (Currently Amended) The intelligent service network of claim 1, wherein one of said programmable switches includes a digital exchange.

7. (Currently Amended) The intelligent service network of claim ~~2~~ 1, wherein one of said intelligent service network components comprises one of an operator console, an automated response unit, a service switching control point, and a protocol converter.

8. (Currently Amended) The intelligent service network of claim ~~2~~ 1, wherein one of said intelligent service network components comprises one of a means for accessing data, and a means for interfacing with a caller.

9. (Currently Amended) The intelligent service network of claim ~~2~~ 1, wherein one of said intelligent service network components comprises one of a network information distribution system database coupled to said switch controller via a network information distribution system server, an applications database, a data distribution system database, and a mainframe database.

10. (Currently Amended) The intelligent service network of claim 1, further comprising:
a system management system coupled to one of said switch controllers.

11. (Currently Amended) The intelligent service network of claim 1, further comprising:
a force management system coupled to one of said switch controller.

12. (Currently Amended) The intelligent service network of claim 1, further comprising:
a configuration and provisioning system coupled to one of said switch controllers.

13. (Currently Amended) The intelligent service network of claim 1, further comprising:
another programmable switch coupled to one of said switch controllers.

14-18. (Canceled)

19. (Currently Amended) The intelligent service network of claim ~~18~~ 1, further comprising:
one or more external networks and resources, wherein each one of said one or more external
networks and resources is coupled to at least one of said one or more intelligent service
network components.

20-22. (Canceled)

23. (Original) A method for setting up a call to an intelligent service network component comprising the steps of:

- (a) receiving by a switch controller from a programmable switch a first programmable switch application programmer interface message to request service indicating an initial address message was received from a public switched telephone network;
- (b) sending a second programmable switch application programmer interface message to command a programmable switch to send an address complete message to said public switched telephone network;
- (c) sending a transmission control message to the intelligent service network component;
- (d) receiving a transmission control response message from the intelligent service network component;
- (e) sending a third programmable switch application programmer interface message to said programmable switch requesting sending of an answer message to said public switched telephone network; and
- (f) sending a fourth programmable switch application programmer interface message to said programmable switch requesting connection of a circuit.

24. (Original) The method of claim 23, further comprising the following steps performed before step (a):

receiving by an originating switch controller from an originating programmable switch a first originating programmable switch application programmer interface message to request service indicating an initial address message was received from a public switched telephone network;

determining that said originating switch controller cannot select the intelligent service network component; and
obtaining an intermachine trunk facility between said originating programmable switch and said programmable switch.

25. (Original) A method for setting up a call originated via a public switched telephone network to an intelligent service network component, comprising the steps of:

receiving a request for facilities to provide service for the call;
selecting by a switch controller the intelligent service network component;
commanding by said switch controller a programmable switch to provide connections and signal to a public switched telephone network to connect the call to the intelligent service network component; and
sending by said switch controller a call offered signal to the intelligent service network component.

26. (Original) A method for connecting a call from an intelligent service network component to a terminating party via a public switched telephone network, comprising the steps of:

receiving by a switch controller from the intelligent service network component a request to connect the call to the terminating party indicating a type of the call;
commanding a programmable switch to attain facilities via the public switched telephone network to the terminating party; and
receiving from said programmable switch a message indicating that said facilities have been obtained.

27. (Original) A method for disconnecting a call established between a public switched telephone network and an intelligent service network component, comprising the steps of:

receiving by a switch controller a termination signal obtained from a calling device interconnected to the public switched telephone network indicating that the call is being terminated;

notifying the intelligent service network component that the established call is being terminated; and

commanding by a switch controller a programmable switch to release the call.

28. (Original) The method of claim 27, further comprising the steps of:

commanding said programmable switch to park channels associated with an originating party and the intelligent service network component;

sending the intelligent service network component a call offered message indicating a reorigination request was received from the public switched telephone network; and

commanding said programmable switch to connect the originating party and the intelligent service network component;

wherein said termination signal is a reorigination signal.

29. (Original) A method for transferring a call, connected between a public switched telephone network and a first intelligent service network component from the first intelligent service network component to a second intelligent service network component, comprising the steps of:

receiving from the first intelligent service network component a request to transfer the call;

commanding a programmable switch to park the channel of the call while the call is being transferred;

selecting by a switch controller the second intelligent service network component;

sending by said switch controller a call offered signal to the second intelligent service network component; and

commanding by said switch controller a programmable switch to provide connections and signal to a public switched telephone network to connect the call to the second intelligent service network component.

30-35. (Canceled)